

# **NOTICE**

**All drawings located at the end of the document.**

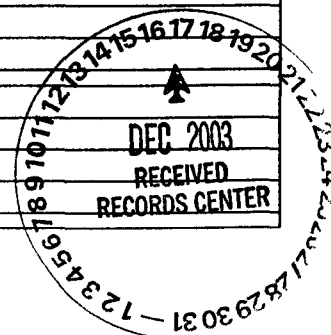
# Type 1 Facility Closeout Report

Attachment 1  
FEG-042-03  
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<b>Section A. Facility Data</b>	
Facility No	Building 116
Facility Descriptor	Office Building
Project	Area 5 Group 1 Closure Project
Date of Demolition:	October 20, 2003 through December 3, 2003
Additional Information	See Attached
<i>(Must include information on environmental releases and conditions of site at turnover to Environmental Restoration)</i>	

<b>Section B. Final Characterization Data</b>	
Reconnaissance Level Characterization Report <i>(concurrence received)</i>	Reconnaissance Level Characterization Report (RLCR) for Building 116 – Concurrence, Steven H Gunderson to Richard DiSalvo, dated March 14, 2003
In-process Characterization	N/A
Pre-Demolition Survey Report <i>(approval received)</i>	N/A
Post-Demolition Survey Report <i>(as necessary)</i>	N/A

<b>Section C. Waste Data <i>(complete categories as appropriate)</i></b>	
<u>Sanitary Disposal</u>	
Disposal Site	Republic Front Range Landfill, Erie, CO
Waste Volume (m <sup>3</sup> ):	1376 3
Waste Weight (tons):	230 5
Additional Information	Demolition debris Material shipped 10/22/03 through 10/27/03
<u>Sanitary Disposal</u>	
Disposal Site	BFI 93 Landfill, Jefferson County, CO
Waste Volume (m <sup>3</sup> )	1070 4
Waste Weight (tons)	1114 9
Additional Information	Concrete Material shipped 11/05/03 through 12/02/03
<u>Sanitary Disposal</u>	
Disposal Site	Republic Front Range Landfill, Erie, CO and BFI 93 Landfill, Jefferson County, CO
Waste Volume (m <sup>3</sup> )	2035
Waste Weight (tons)	1584 4
Additional Information	Asphalt Material shipped 11/06/03 through 11/18/03
<u>Hazardous Disposal</u>	
Disposal Site	
Waste Volume (m <sup>3</sup> )	N/A
Additional Information	
<u>TSCA Waste Disposal</u>	
Disposal Site	
Waste Volume (m <sup>3</sup> )	N/A
Additional Information	
<u>Asbestos Waste Disposal</u>	
Disposal Site	
Waste Volume (m <sup>3</sup> ):	N/A
Additional Information	
<u>Low-Level Waste Disposal</u>	
Disposal Site	
Waste Volume (m <sup>3</sup> )	N/A
Additional Information:	



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<b>Low-Level Mixed Waste Disposal</b>	
Disposal Site	
Waste Volume (m <sup>3</sup> )	N/A
Additional Information	
<b>Recycled Material</b>	
Recycle Facility	
Waste Volume (m <sup>3</sup> )	N/A
Additional Information	
<b>Property Disposition</b>	
Receiver Locations ( <i>major items only</i> )	
Volume (m <sup>3</sup> )	
Weight (tons)	N/A
Additional Information	

<b>Section D. Approvals</b>		
Kaiser-Hill Project Manager	<i>HARRY L. LINCOLN, JR.</i> Name/Signature	12/12/03 Date

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## Historical Information:

Building 116 was a general office building and had housed operations such as DOE, ES&Q, Radiological Safety, Regulatory Compliance and RISS Project Management personnel. This building had never housed any hazardous or radiological operations.

Dates and duration of specific activities are shown below:

- CDPHE RLCR concurrence March 14, 2003
- Demolition permit application to CDPHE/Asbestos Unit October 6, 2003
- CDPHE demolition approval notice October 10, 2003
- Demolition start date 10/20/03
- Demolition completion date 12/03/03

## Building Characterization:

Reconnaissance Level Characterization (RLC) was performed to enable facility "Typing" per the DPP (10/8/98) and compliant disposition and waste management of the Area 5, Group facilities (i.e., 115, 116 and T117A). Because Building 116 was anticipated Type 1 facility, the characterization was performed in accordance with the Pre-Demolition Survey Plan (MAN-127PDSP) requirements. All facility surfaces were characterized and the data reported in the RLC report, including the interior and exterior surfaces (i.e., floor, walls, ceiling and roof).

RLC encompassed both radiological and chemical characterization to enable compliant disposition and waste management pursuant to the D&D characterization Protocol (MAN-077-DDCP). The characterization was built upon physical, chemical and radiological hazards identified in the facility-specific Historical Site Assessment report.

Results indicate no radiological contamination exists in excess of the PDSP unrestricted release limits of DOE Order 5400.5. All beryllium sample results were less than  $0.1 \mu\text{g}/100\text{cm}^2$ . Bulk samples of building materials suspected of containing asbestos were "None Detected". All construction debris and concrete was free released and disposed as sanitary waste.

## Physical Description:

Building 116 was a 16,700 square foot general office building. The building was steel-framed structure with metal siding mounted to the steel frame. Building 116 was constructed on a concrete pad and had an insulated metal roof mounted to steel trusses.

Building 116 had the following utilities: electrical, plant water, plant sanitary, natural gas and fire protection provided by an overhead sprinkler system and wall mounted fire extinguishers.

## Description of Site Condition at End of Decommissioning:

D&D of the building consisted of the demolition of the structure, HVAC system, sprinkler system, electrical conduit, lighting, ductwork systems, and mechanical room equipment – hot water heaters, piping and conduit. RCRA components (i.e., mercury lights bulbs, PCB ballasts, mercury switches, electronic equipment and circuit boards) were segregated from non-hazardous materials and removed prior to demolition.

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Environmental media beneath and surrounding the facility was not within the scope of this Project and will be addressed at a future date under the scope of the ER RSOP, if required. However, no remedial action is planned. Final contouring of the trench grade is being evaluated.

Drainage around Building 116 was controlled by drainage ditches and three culverts. The largest culvert was located southeast of Building 116 supporting the roadway around the south end of the building. A second culvert was located northwest of the building supporting the parking lot entrance/exit. And, a third culvert was located east of the building main entrance supporting the walkway. All three culverts were removed. Asphalt parking lots and driveways around Building 116 were removed. All debris was removed and the site graded.

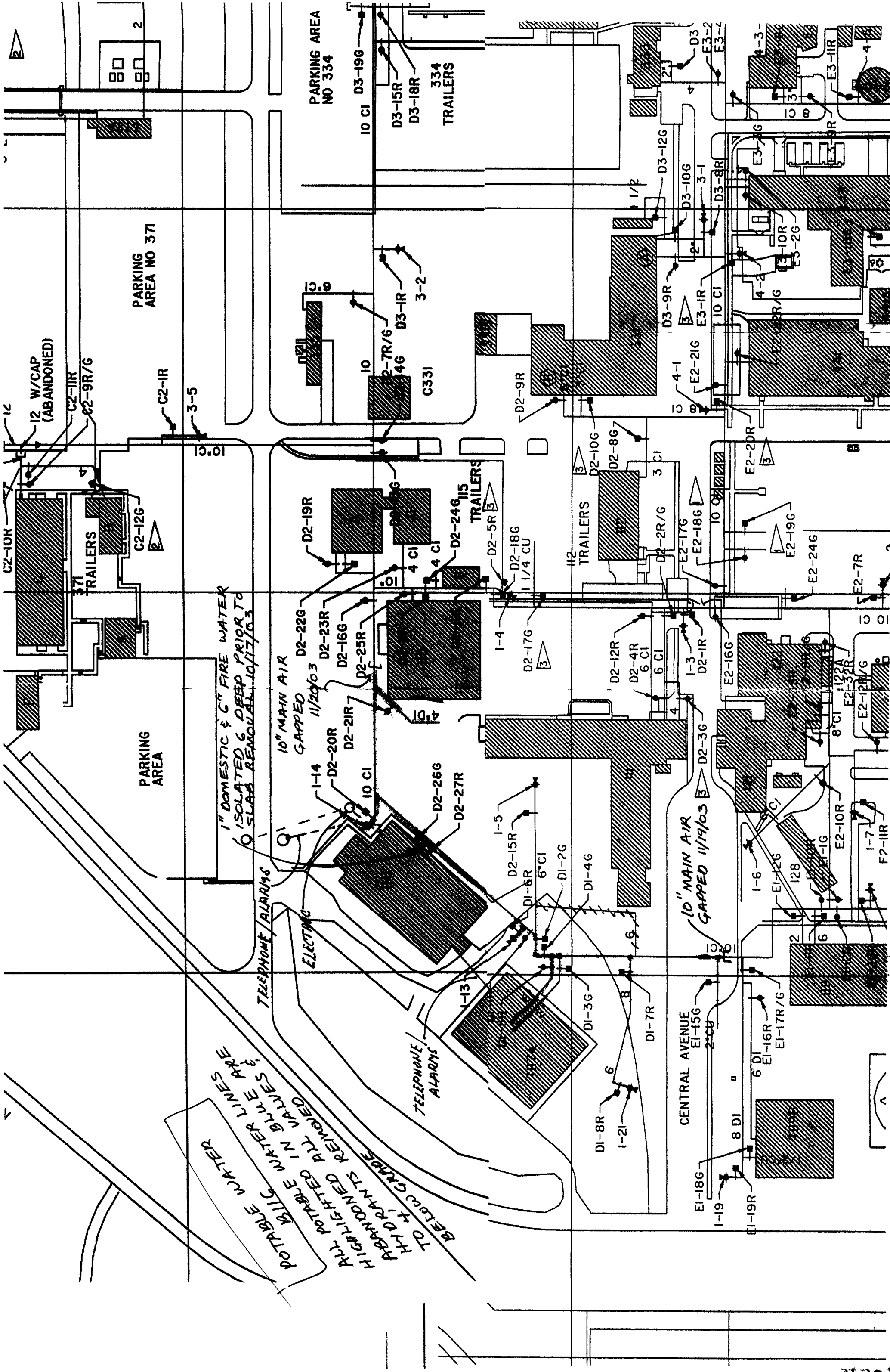
Potable water lines were air gapped at the mains. The remaining water lines between these mains and the building were abandoned. All valves and fire hydrants were removed to 4 feet below grade. Prior to the removal of the concrete slab, the domestic and fire water lines located northeast of the main entrance to the building were isolated 6 feet below grade. The natural gas line to the building was purged and abandoned. The natural gas line was air gapped above ground at the gas line main, northwest of Fourth Street and Sage Ave. Sanitary sewer line was flushed and plugged at manhole MH-163, southwest corner of T117A and manhole MH-75, located south of Trailer 371C. The sanitary sewer line was abandoned. Electric service entered the building through an underground line from the north. The wires were removed and the conduit abandoned. The remaining conduit is 3 feet below grade. Telephone, fiber optics, local area network and alarm system lines were stripped of wiring and the conduit abandoned. These lines enter from the north and south ends of the building. The remaining conduit is 3 feet below grade.

See attached maps for location of the potable water line, manholes, natural gas line, electrical line, sanitary sewer line, and communication and alarm system lines.

### **Additional Information:**

Listed below are the databases that provide the administrative controls for waste package and area information, chemical management, storage tank management, and RISS environmental compliance tracking. These databases were updated to reflect the status of the building at the time of demolition/removal.

- Waste and Environmental Management System (WEMS),
- Chemical Tracking System (CTS),
- Tank Management System, and
- Environmental Compliance Action Tracking System (ECATS)



POTABLE WATER  
ALL POTABLE WATER LINES  
HIGHLIGHTED IN BLUE ARE  
ABANDONED ALL VALVES &  
HYDRANTS REMOVED  
TO 4' GRADE  
BELOW GRADE

1" DOMESTIC & 6" FIRE WATER  
ISOLATED & DEEP PRIOR TO  
SLAB REMOVAL 10/17/03

10" MAIN AIR  
GAPPED 11/19/03

10" MAIN AIR  
GAPPED 11/20/03

CENTRAL AVENUE

TELEPHONE ALARMS

TELEPHONE ALARMS

ELECTRIC

PARKING AREA  
NO 334

PARKING AREA NO 371

PARKING AREA

334 TRAILERS

TRAILERS

TRAILERS

GAS LINE PURGED &  
ABANDONED IN PLACE  
12/12/02,  
REMOVED 4' BELOW  
GRADE NOV '03

3" GAS LINE AIR  
GAPPED ABOVE GROUND  
12/12/02

NATURAL GAS  
B116

